

GRT -- Possibly GReaT?

Cross Kirkland Corridor
Advanced Transportation Symposium

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Web- The *Get On Board!* PRT NewsCenter: [bit . ly / p r t n e w s](http://bit.ly/prtnews)

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GR What?

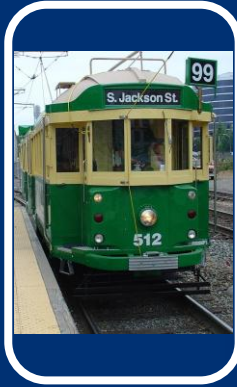
- Group Rapid Transit
- No technology standard
- Not even an agreed-on definition

Mass-ness Spectrum



PRT

'GRT
Zone'



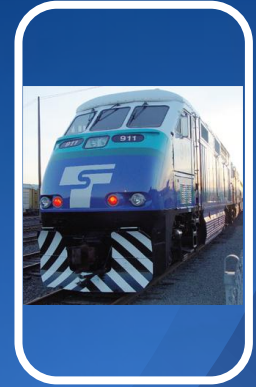
Bus/
Streetcar



LRT



Metro



Intercity

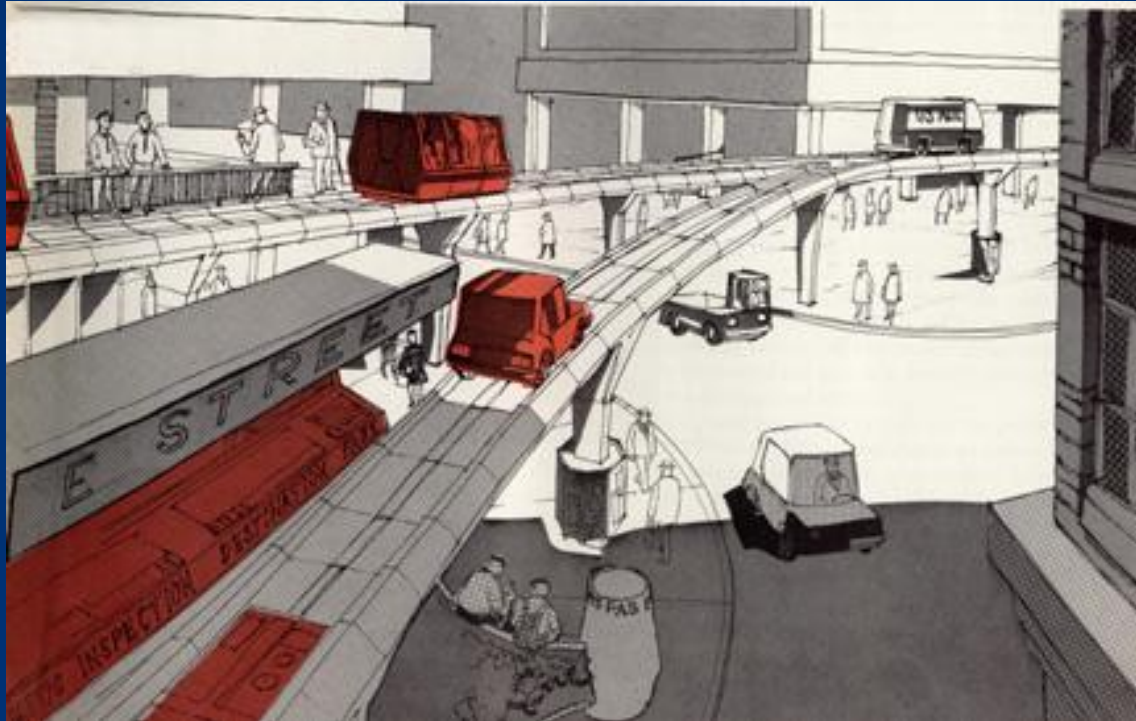
The indirect birth of GRT

- Intertwined with development of PRT
- Early 60s
 - Rep. Henry Reuss (D-WI) advocated for new transit concepts
 - Donn Fichter PRT book influential among urban planners
- Late 60s
 - *HUD Reports* (1968) calling for Automated Guideway Transit
 - Aerospace Corp. studies validated HUD findings on PRT
- Urban Mass Transit Admin. tasked with PRT implementation

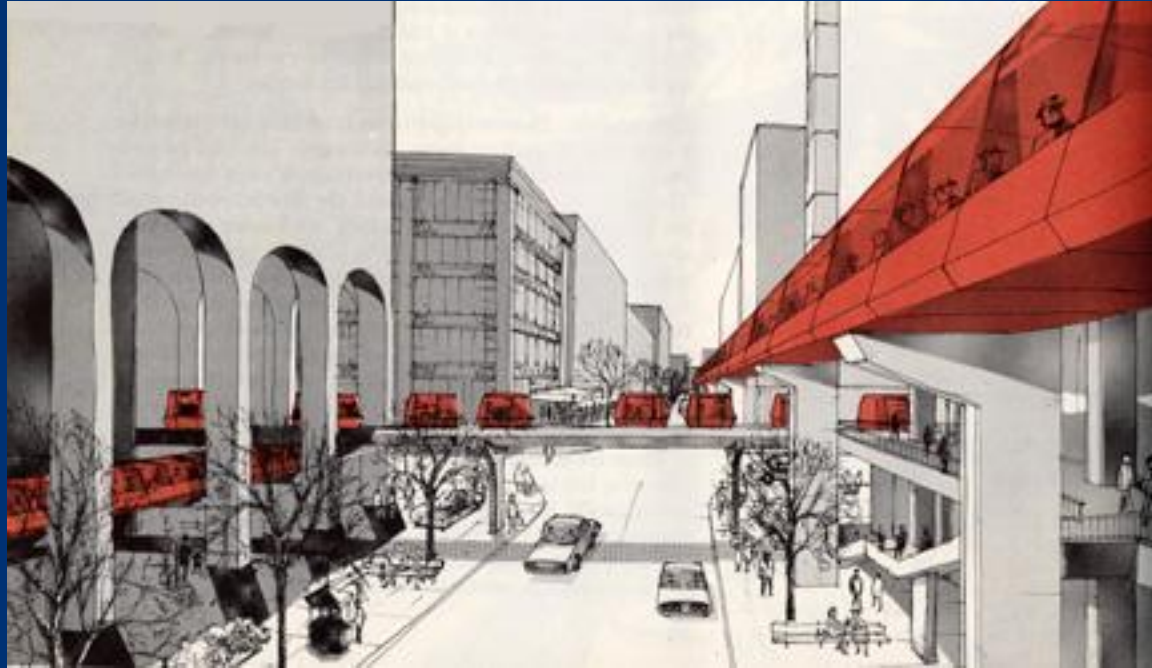
HUD Reports



HUD Reports



HUD Reports





Alden STARR Car



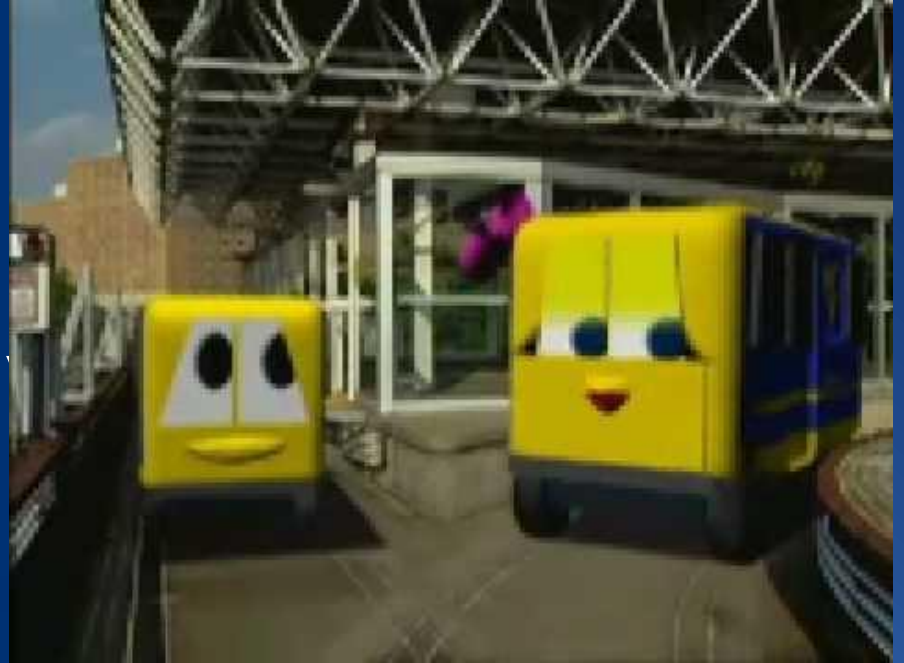
- "Self Transit Rail & Road"
- Chosen as the technology for UMTA's demonstration of PRT
- UMTA + Robert Byrd + \$\$ = West Virginia Univ.



Morgantown PRT



- Phase I 1975, Phase II 1979
- 8.7 miles
- 6 stations (2 'urban')
- 71 vehicles, 70hp DC, power rail
- 30 mph
- 8-21 passengers





Sidebar: Cabintaxi

UMTA work on PRT spawned competing programs in Europe and Japan. None came to fruition.

- Aramis (France)
- Cabtrack (England)
- CVS (Japan)
- Cabintaxi (W. Germany)



UMTA Downtown Peplemovers

Detroit DPM

- 100~ pax vehicles
- 2.9 mile downtown loop
- 13 stations
- 50 cent fare
- Since 1996 grown from 1.3M to 2.3M pax/yr
- \$210M

Miami MetroMover

- 100~ pax vehicles
- 3 loops totaling 4.4 miles
- 20 stations
- Free
- Since 1995 grown from 4.2M to 9.2M pax/yr
- Phase I \$153M

Detroit DPM



Miami MetroMover







See also "Peplemover" > [bit . ly/ p e o p l e m o v e r c h](http://bit.ly/peplemoverch)

Newer GRT

Niche peplemovers

- Short & medium distance
- Resorts, airport shuttles

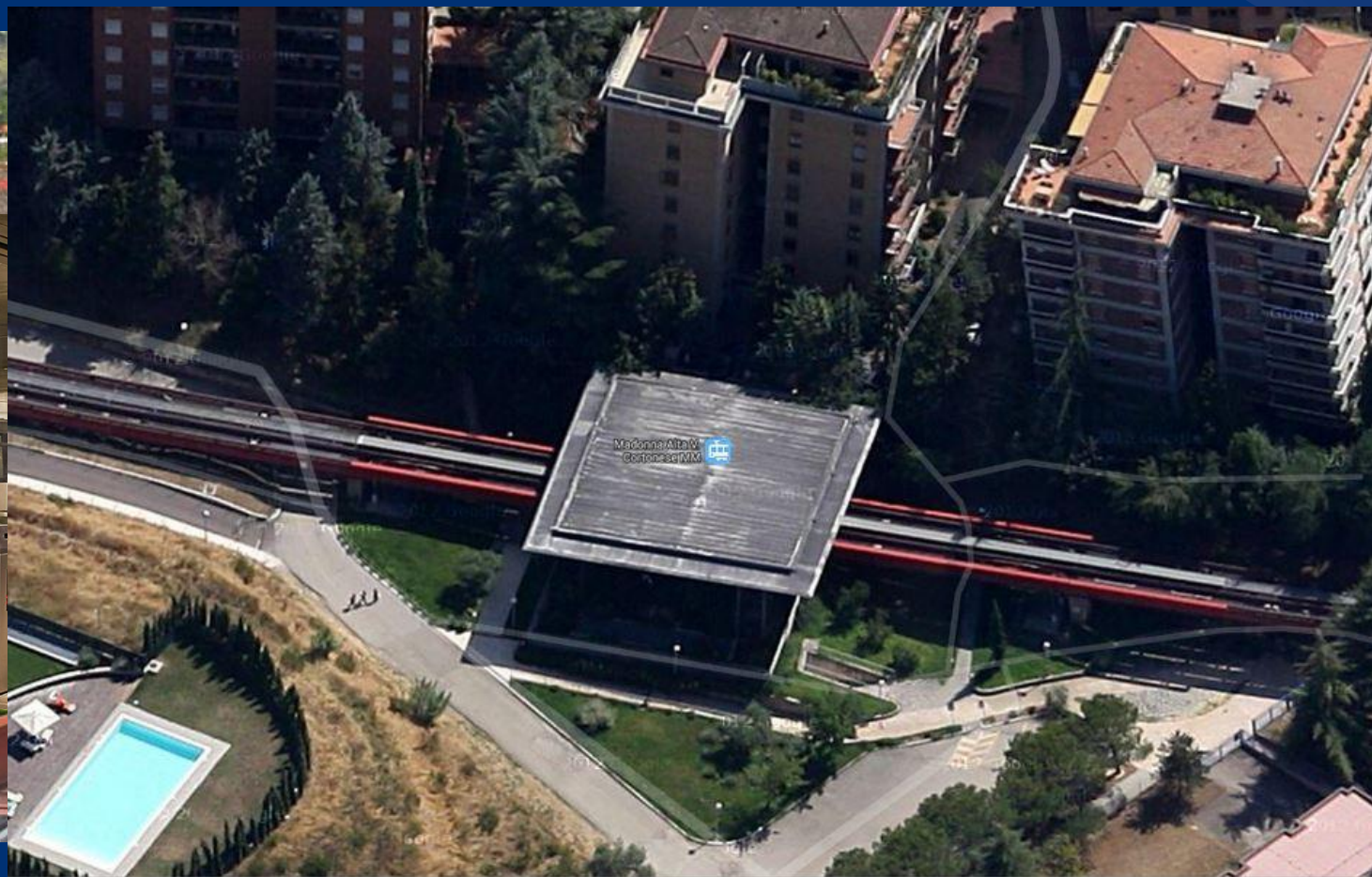
Urban peplemovers

- Docklands (London)
- VAL (Europe)
- Skytrain (Canada)
- Paris Metro Line 14
- Perugia Minimetro



Via del Tabacchificio, Perugia, Umbria, Italy
Address is approximate







Rivium ParkShuttle



- By 2getthere of The Netherlands
- Purposely designed as GRT
- Opened in 1999, currently contracted through 2016



601 Bahialaan, Rotterdam, South Holland, Netherlands
Address is approximate

Image Date: June 2009



Vectus



- A PRT system developed by POSCO
- Built & tested in Sweden
- EU safety approval
- First system in operation in South Korea





Where to now?

- Squishy definition could be OK
- Focus on matching mode capabilities to desired outcomes.

PRT & Technology Screenings

- Capacity
- Infrastructure cost
- Number of vendors/sole source
- Operating costs
- Visual intrusion
- Access
- Rider comfort
- Travel time
- Operational experience/in revenue service
- Recently: *Regulatory environment*

Questions?

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